

ILDRCVA105

Summary

ILDRCVA105 is a constant voltage mode output LED driver. The driver supports leading edge (Triac) and trailing edge (ELV) dimmer, and can be compatible with the systems of various brands (Philips, Panasonic, Lutron, Simon, ABB,Bunge, Siemens etc.) to achieve a smooth dimming effect.

Product Feature

- Single-channel constant voltage output, 3.125A Max.
- Support Leading edge (Triac) and Trailing edge (ELV) Dimmer
- Dimming range from 40VAC to 240V AC
- Dimming effect smooth, no flicker
- High efficiency: up to 88%
- Over current protection; Short circuit protection; Over voltage
- Suitable for indoor LED lighting application

Application

For LED constant voltage strip light only



LED Strip Light



LED Tube



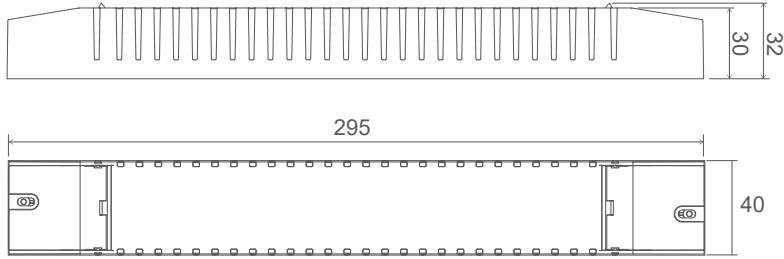
SELV



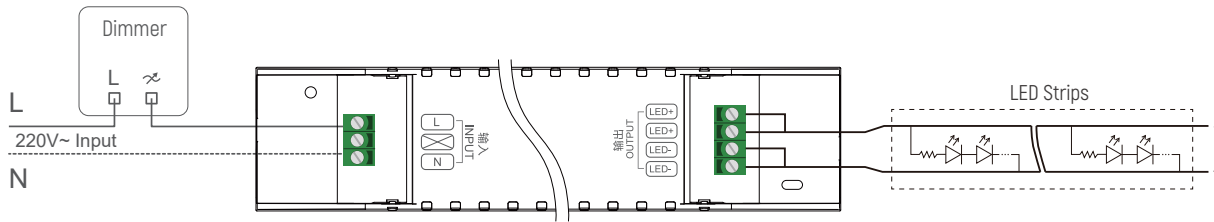
Technical Parameters

Model	ILDRCVA105		
Input	Efficiency	88%@220VAC, Full load	
	Voltage	200VAC-240VAC	
	Frequency	50/60Hz	
	Power Factor	>0.98@230VAC, Full load	
	Current	0.43Amax@220VAC, Full load	
	Dimming voltage range	40-240VAC	
	Inrush Current	Cold start,19.4A(t width =700us measured at 50% Ipeak) @220VAC	
Output	Current/Voltage/Power	3.125A/24VDC/75W	
	No load output voltage	24VDC±5%	
	Channel	1	
	Voltage Tolerance	±3%	
	Turn On Delay Time	<1s, at 230Vac	
Function	Dimming Mode	Triac	ELV
Protection	Over load	When the output voltage is exceeded, the output current decreases and, recovers automatically when the load is reduced.	
	Short Circuit	Hiccup, recovers after fault condition is removed	
	Over voltage	Limit the output to 110% to 150% of the rated power	
Safety&EMC	Surge	L-N:2KV	
	Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA	
	Safety standards	EN61347, GB19510	
	EMI emission	EN55015, EN61000-3-2	
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547	
Others	Working Temp.	-20℃~50℃	
	Storage Temp.; Humidity	-40℃~85℃, 20-90%RH	
	Tc	85℃	
	Material	PC	
	IP Rating	IP20	
	Lifetime	50,000h@tc:85℃	
	Warranty Condition	5 years	
	Switch Cycle	>25,000 times	
	Packing Size	Net weight: 340g±5%/PCS; 50PCS/Carton; 17.05kg±5%/Carton; Carton Size: 434*302*174mm(L*W*H)	
	Dimension	295*40*32mm(L*W*H)	

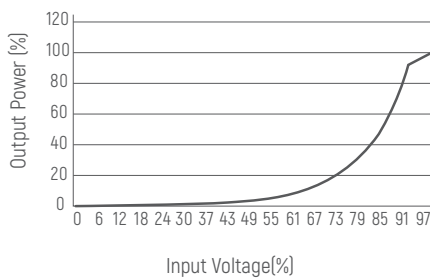
Dimension(mm)



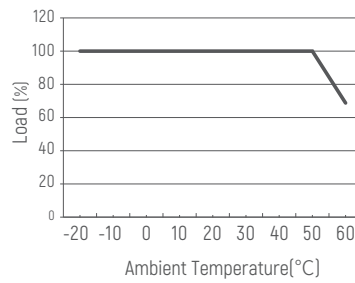
Wiring Diagram



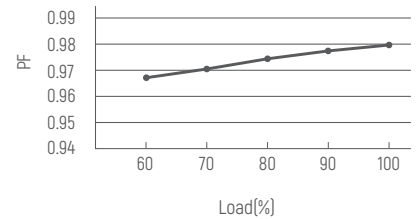
Dimming Curve



Derating Curve



PF vs Load



Cautions

- 1.The product shall be installed and serviced by a qualified person.
- 2.This product is non-waterproof. Please avoid the sun and rain. When installed outdoors please ensure it is mounted in a water proof enclosure.
- 3.Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
- 4.Please check if the output voltage and current of any LED power supplies used comply with the requirement of the product.
- 5.Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
- 6.For safety consideration, PVC or rubber cord of 0.75-1.5mm² is recommended for input and output terminal(s) . Flat power cord is not suitable. Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
- 7.If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.
- 8.No insulation between dimming circuit and LV circuit

